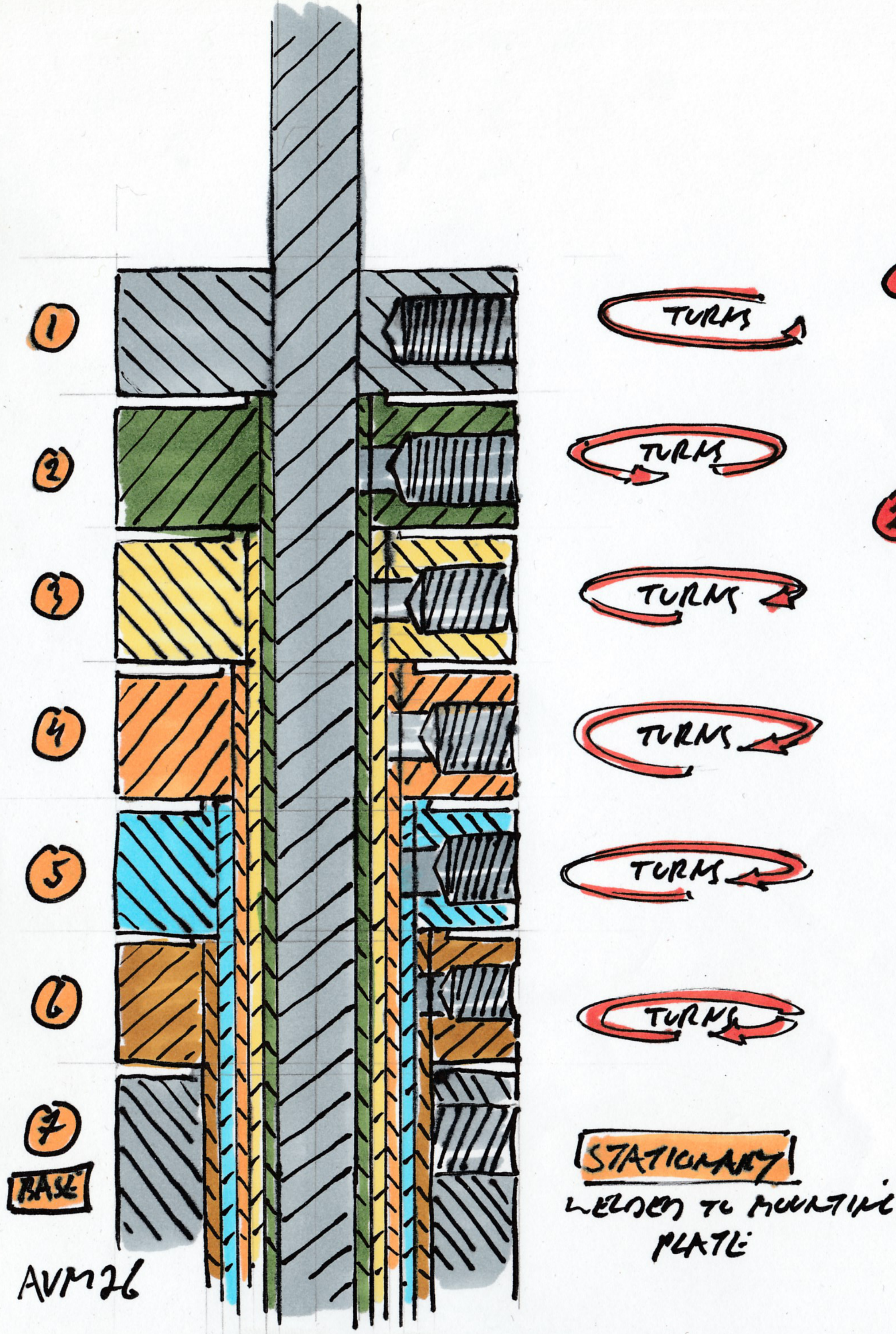
GREASING INSTRUCTIONS

FOR UPPER PLANET MECHANISM



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1. REMOVE THE PLANET ARMS. PLACE THEM ON A SOFT CLOTH. REMOVE OUTERMOST PLANET ARM FIRST, INNERMOST LAST.

2. ATTACH A 5MM GREASING NIPPLE, HANDTIGHTEN IT AND GREASE 1-2 cm^3 GREASE WITH GREASING GUN

   DO **NOT** GREASE UPPERMOST DISC WITH INNERMOST PLANET.

   DO GREASE ⑦ **BASE** AFTER REMOVING THE 5MM (GRUB) SCREW CAP. (IF PRESENT)

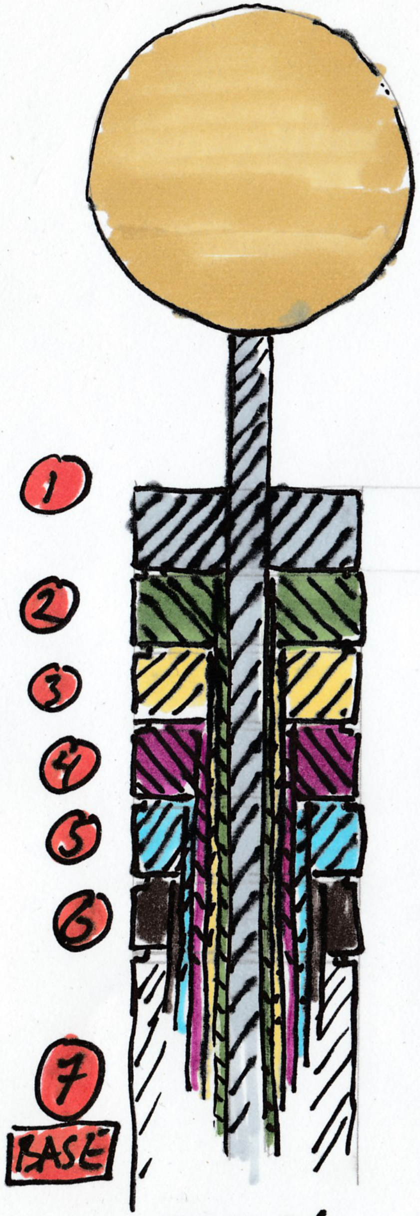
IF, THERE'S NO GREASE GUN OR GREASE NIPPLE THEN TRY TO CREATE A SEAL AROUND THE M5 PLANET ARM HOLE THEN OIL OR GREASE

DUTY CYCLE 6 HOURS PER DAY

GREASING CYCLE TWICE OR THREE TIMES A YEAR FOR GREASE
SIX TIMES A YEAR FOR (MOTOR) OIL.

GREASING THE TURNING PLANET ARMS

OIL OR GREASE (WITH M5 GREASE NIPPLE AND GREASE GUN) DISC 2 TO DISC 6 AND 7 BASE ARE EACH INDIVIDUALLY OILED OR GREASED AFTER UNSCREWING THE PLANET ARMS OR GRUB SCREW FOR THE BASE



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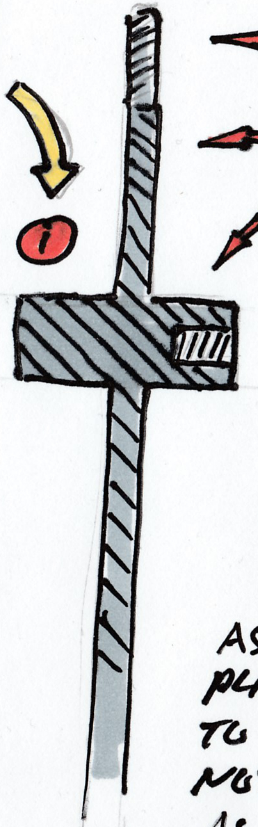
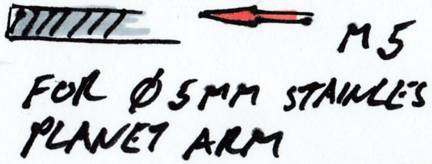




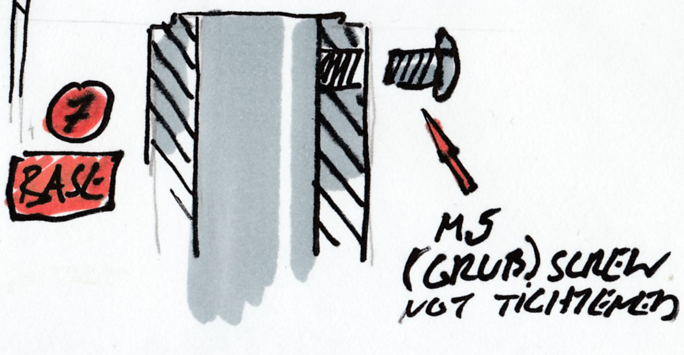
NOTE 1

AS THE TOP / INNERMOST PLANET DISC IS SOLDERED TO A SOLID ROD, IT IS NOT DRILLED THROUGH AS THERE IS NO GREASING NECESSARY

2 TO 6 HAVE THEIR DISCS SOLDERED TO THEIR TUBES

NOTE 2

DISCS 2 TO 6
AND 7 BASE
ARE DRILLED THROUGH
Ø3.MM OR Ø4 MM FOR PLANET DISCS
THIS ALLOWS GREASING
7 BASE IS JUST M5 FULLY



ALTERNATIVE

GREASING PLANET ARMS

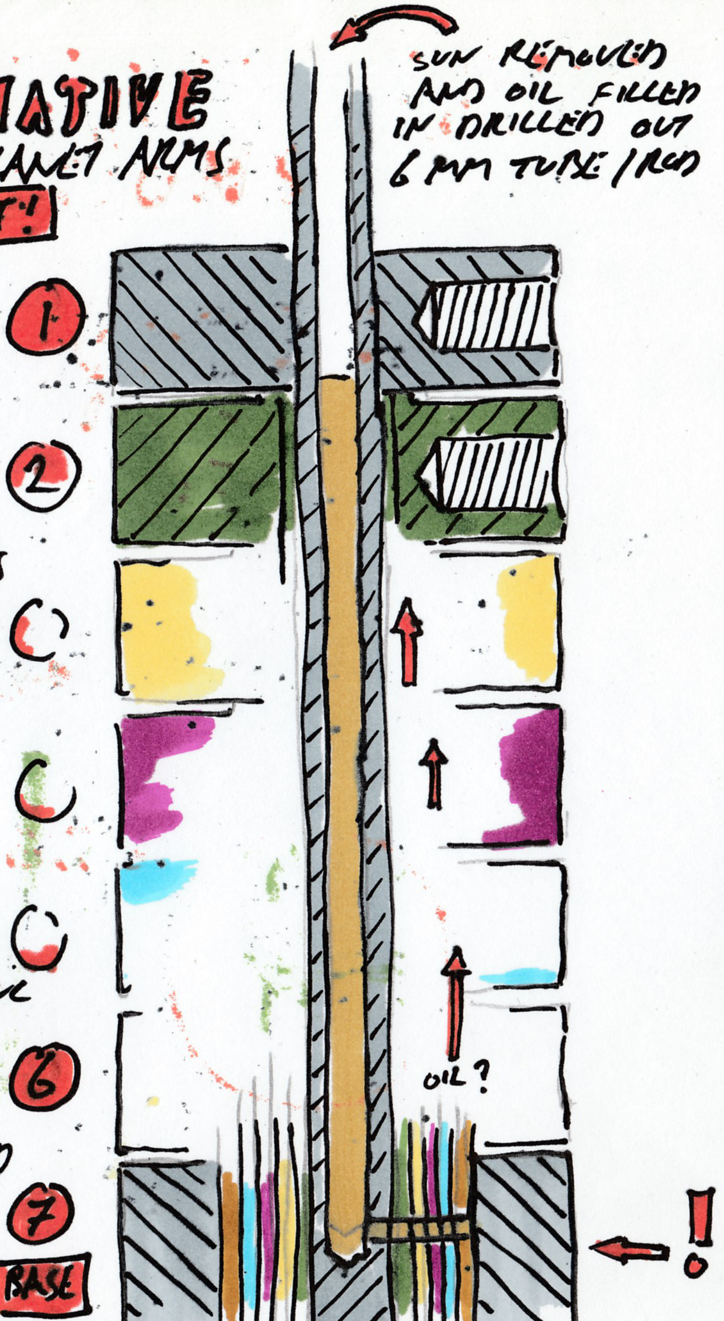
NOT USED YET!

ROD ① IS DRILLED TO 10 MM BELOW THE TOP OF ⑦ BASE

AND THE REST OF THE TUBES ARE DRILLED AT RIGHT ANGLES

THIS MEANS THAT OIL USES GRAVITY TO DELIVER TO ALL TUBES

SUN REMOVED AND OIL FILLED IN DRILLED OUT 6 MM TUBE / ROD



DRAWBACKS

DRILLING 6MM ROD OR PLUGGING THICK WALLED 6MM TUBE

ONLY (MOTOR) OIL CAN BE USED

QUESTIONS ?

BASE

WOULD CAPILLARY ACTION BRING OIL ALL THE WAY UP TO ⑦ SUFFICIENTLY?

A 2 OR 3 MM HOLE IS DRILLED THROUGH ② ③ ④ ⑤ AND ⑥ 10 MM BELOW ⑦ BASE TOP INTO DRILLED ① ROD

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THE LAST PLANETS

RECENTLY I COMPLETED TEN BRAZED / SOLDERED BRASS PLANETS. WITH SILVER OR COPPER CONTINENTS PATINATION TO THE GREEN / BLUE WOULDN'T KEEP → I'D STILL LIKE TO KNOW WHY

I ALSO ALTERED A PETANQUE PLANET I WASN'T HAPPY WITH. THE CLAMPING BLOCKS WORKED WELL. MY LAST FOUR SOLID ALUMINIUM PETANQUE BALLS WILL BE LATHED AND MILLED IN THE FUTURE. IF NOT FOR ORRERIES THEN FOR THE ROBOTS OR "FLYERS" AS A BACKGROUND DETAIL...

I'D STILL LIKE TO KNOW WHY I CAN'T "WET" THE RECYCLED FRIDGE COMPRESSOR PUMP COPPER WIRE WITH TIN.... CREATING "LAVA" PLANETS WITHOUT VOIDS AND MISCASTS. EVEN WITH FLUX AND SANDING..... PERHAPS BUYING PRE TINNED COPPER WIRE AND THEN CREATING A TIN OR ZAMAC SPHERE WORK BETTER?

SINCE I WAS A YOUNG MAN I'VE HAD REOCCURING DREAMS WHERE I HAMMER MY OWN PATTERN WELDED / DAMASCUS STEEL. SIMPLY AN AMORPHOUS SHAPE THOUGH NOW MORPHED INTO A PLANET PERHAPS AN INCH IN DIAMETER. PERHAPS WITH A LAYER OF COPPER OR GOLD AS SOME MAKERS NOW DO. OR MOKUME-GANE FOR NON-FERROUS. IT WOULD COMPLETE THE ORRERY PLANETMAKING THE HAND OF THE PLANETMAKER IN EVERY HAMMER BLOW. SWIRLS OF GEOLOGY AND TECTONICS. ONCE WHITE HOT. NOW COOLED AND CRATERED......

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